		T. 1. 44	
•	Application No.	Applicant(s)	<i>A</i>
Notice of Allowability	10/714,341	MURASHITA, MASA	ARU //
	Examiner	Art Unit	V
	Jaworski Francis J.	3737	
The MAILING DATE of this communication apper All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this a or other appropriate communication IGHTS. This application is subject	pplication. If not include on will be mailed in due	ed course. <b>THIS</b>
1. This communication is responsive to <u>IDSs 11/14/03,4/12/0</u>	<u>04</u> .		
2. The allowed claim(s) is/are <u>1 - 18</u> .			
3. $\boxtimes$ The drawings filed on <u>14 November 2003</u> are accepted by	the Examiner.		
<ul> <li>4.  Acknowledgment is made of a claim for foreign priority units a)  All b)  Some* c)  None of the: <ol> <li>Certified copies of the priority documents have</li> <li>Certified copies of the priority documents have</li> <li>Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)).</li> </ol> </li> <li>* Certified copies not received:</li> </ul>	e been received. e been received in Application No.		tion from the
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file a repl IENT of this application.	y complying with the rec	quirements
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which giv			OTICE OF
<ol> <li>CORRECTED DRAWINGS ( as "replacement sheets") muter</li> <li>(a)  including changes required by the Notice of Draftspers</li> <li>1)  hereto or 2)  to Paper No./Mail Date</li> <li>(b)  including changes required by the attached Examiner Paper No./Mail Date</li> </ol>	son's Patent Drawing Review(PT0		
Identifying indicia such as the application number (see 37 CFR a each sheet. Replacement sheet(s) should be labeled as such in	I.84(c)) should be written on the drav the header according to 37 CFR 1.12	vings in the front (not the 1(d).	back) of
7. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT	sit of BIOLOGICAL MATERIAL	. must be submitted. N	Note the
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. ☐ Notice of Informal	Patent Application (PT)	O-152)
<ol> <li>Notice of Preferences Cited (1.75 cos2)</li> <li>Notice of Draftperson's Patent Drawing Review (PTO-948)</li> </ol>	6. 🗌 Interview Summa	ry (PTO-413),	- · · - <b>-</b> /
3. Information Disclosure Statements (PTO-1449 or PTO/SB/	Paper No./Mail D 08), 7. □ Examiner's Amen		
Paper No./Mail Date <u>04122004,11142003</u> 4.  Examiner's Comment Regarding Requirement for Deposit	8. X Examiner's Stater	nent of Reasons for Allo	wance
of Biological Material	9. 🗌 Other		
		Francis J. Jaworsk	

U.S. Patent and Trademark Office PTOL-37 (Rev. 1-04) Application/Control Number: 10/714,341

Art Unit: 3737

## **REASONS FOR ALLOWANCE**

The following is an examiner's statement of reasons for allowance: Kishimoto et al (US5465721) is directed to defining the intra-ventricular volume using paired intersections of scanline segments passing through the ventricular wall. Sheehan et al (US6106466) is directed to automated heart border boundary identification by using an abstract mesh having control vertices associated with anatomic landmarks. Taylor (US6491632) is directed to the use of a target plate having orthogonal reference lines for determining a view transformation matrix for displayed ultrasound data. Remaining citations on the accompanying PTO-892 pertain to 3D boundary detection or to elliptical or body model use for defining a region of interest. None of the prior art alone or in combination teaches or suggests a boundary unit for finding target tissue boundaries within voxel data along intersecting first and second reference lines or orthogonal such lines based upon intersecting plane relationships together with a shape parameter calculator unit for calculating plural shape parameters for specifying a three-dimensional region of interest or with an axis setting unit for setting first, second and third axes based upon the reference lines and an ROI setting unit for setting the ROI based upon the plurality of shape parameters or the axes set by the setting unit.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Art Unit: 3737

Any inquiry concerning this communication should be directed to Jaworski Francis J. at telephone number 703-308-3061.

FJJ:fjj

11-24-2004

Francis J. Jaworski Primary Examiner